SPECTRA DECKGUARD BASE COAT

PU BASED INTERMEDIATE COAT FOR FLOOR DECK CAR PARKING

Description

Spectra Deckguard Base Coat is 3K Polyurethane Based intermediate coat for car parking area specially designed to impart high mechanical properties and excellent crack bridging capacity.

Uses

- Multistoried and underground Car Parking Area & Ramps
- Garage Floor
- Mechanical Warehouses
- Loading Bays

Features & Benefit

Spectra Deckguard Base Coat is characterized by-

- Solvent Free, Low VOC
- Self Levelling
- High Mechanical Strength
- Excellent Crack Bridging Ability (CBA)
- Excellent Adhesion to Concrete
- Good Chemical and Abrasion Resistance
- Skid Resistance

Components & Ratios

Components mixing ratios
Comp A: Comp B: Comp C: Comp D = 100 : 50 : 100

Packaging

Available in 10 kg packaging.

Application Methods

Joint Treatment

Joints in substrate should be treated properly prior to the floor topping with **Spectra Deckguard Base Coat** is done. **Spectra Deckguard Base Coat** should be used only on high strength substrates. New concrete should be cured for minimum 28 days.

Surface Preparation

New Concrete Surface - Should be at least 28 days old or have a moisture content of less than 5% before proceeding with **Spectra Deckguard Base Coat** application. Laitance and deposits on new concrete floors are preferably removed by light grit/ shot blasting, mechanical scarifying or grinding.

Old Concrete Surface- Determine the general condition, soundness, presence of contaminants, presence of moisture vapour emissions and the best methods to prepare the surface to receive floor coating system. Mechanical surface profiling by grit or shot blasting, grinding or scarifying .

• Hydrophobic contaminants can be identified by a simple water drop test. Other contaminants can be identified by pH.

• Remove localized weak or deteriorated materials from the surface. Remove bond-inhibiting materials such as oils, grease, wax, fatty acids, and other contaminants. This can be accomplished by the use of detergent scrubbing, low pressure water cleaning (less than 5000 psi), steam cleaning, or chemical cleaning.

• Surface defects such as voids, bug holes, excess porosity, and physical and chemical damage are usually filled or repaired prior to the installation of the floor coating system. High spots must be removed by grinding

Application of Primer

Apply the **Spectra Floguard ERP 2K** to the prepared concrete surface. Mix components of **Spectra Floguard ERP 2K** in proportion as recommended. Once mixed, primer should be immediately applied in a thin, continuous film using stiff brush/ roller or trowel at an application rate of 0.2-0.25 Kg/sq mt.

Porous surface may require two coats of primer. Primer should be allowed to cure sufficiently, normally 6 – 18 hrs, prior to application of **Spectra Deckguard Base Coat**.

Application of Base coat

Spectra Deckguard Base Coat is supplied in pre-weighed three components ready to use on site. Preferably use slow speed electric stirrer for mixing. Prior mixing all three components, stir Part A mechanically and pour into another container then add Part B and mix them until uniformity achieved. Then add Part C (Filler) and mix them till the mixture get homogeneous. Overmixing must be avoided to minimize air entrapment.

Spread the mixed Base Coat on primed surface by using trowel or squeeze at an application rate of 0.7-0.8 Kg/sq mt followed by spike roller to remove the entrapped air.

Broadcasting of Antiskid Sand

While Base Coat is still wet broadcast quartz sand (0.5-1.0 mm) over it uniformly. The excess aggregate should be removed after 6-8 hours by brushing or vacuuming before the application of Top Coat.

Cleaning

Tools and equipment contaminated with Primer or Base/Top Coat can be cleaned with MEK or suitable solvent. Cleaning should be done before it starts to gel or harden.

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Properties

Name of Compound	Spectra Deckguard Base Coat - Comp A	Spectra Deckguard Base Coat - Comp B	Spectra Deckguard Base Coat-Comp C
Colour & Appearance	Light yellowish	Colourless to Light yellowish	White powder
Type of Compound	Waterborne Polyol	Isocyanate Hardener	Quartz powder
Ratio	100	50	100
Quantity of component in packaging(kg)	4	2	4

Mixed Properties	
Appearance	Flowable viscous liquid
Appearance after curing	Matt
Mixed Density	Approx 1.3gm/ml
Pot Life	45-60 mint at 30^{0}C
Initial Curing time	8 hrs
Foot Traffic	24 hrs
Full Traffic load	After 7 days
Coverage	0.7 – 0.9 kg/sqmt
Application	Trowel/Squeeze/ Spike Rollar

Cured Material Properties

Properties after 15 days curing at room temperature

Property	Test Method	Typical Values
Tensile Strength(N/mm2)	ISO 527	10
Pull up adhesion on Concrete	ASTM D-4541	>3 Mpa, Concrete failure
% of Elongation	DIN 53504/ ASTM D412	Min 30
Shore D	ISO 868	>70
Crack Bridging Ability (CBA)	ASTM C836/836M-18	Min 2mm (No Cracks)
Adhesion in Peel After Water Immersion (180)	ASTM C794-18	765 N/m
Taber Abrasion Loss/1000 cycles (CS 17)	ASTM D4060 :2019	20 mg

Storage & Shelf Life

This products should be stored in well ventilated dry place away from moisture contamination. The area of storage shall be covered protecting the material from direct sunlight. The shelf life of these products shall be **one year** from the date of manufacture in sealed unopened container.

Safety & Handling

Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet.

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Note:
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